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		ven National Laboratory Synchrotron Light Source		Number: LS-PPS-0010 Effective: 3/29/02	Revision: B Page 1 of 3			
Subje	ct: <u>Hutchless</u> Beamli	ne Radiological Interlock T	`est	3/29/02				
Prepa Appro	nred/ M. Buckley	Approved By: S.Buda	Revision/Periodic Re					
			*	Approval signatures on t	file with master copy			
BEA	AMLINE:		Test Result:	□ Passed	☐ Failed			
Test	Test Reason:			□ Full □ Part				
Test	Date:		Test Type: Start Time:	Finish				
Test	er 1:		Assistant 1:	'				
Test	er 2:		Assistant 2:	Assistant 2:				
1.	Leave shutters closed.		lockout key ca	nnot be removed f	rom			
2.	Open safety shutter.		1					
		Beamline button is p		nnot be removed e	even if			
3.	Close shutter. Turn KKH and note where solenoid unit stops rotation. Push the button and turn key just beyond this point, but not far enough to actuate "key removed" switch. Release the button and leave key in this position. Open safety shutter, remove KKH, and replace.							
		RIA late	ch light comes	on				
		RIB late	ch light comes	on				
			ety shutter clos					
			not be reset wi					
		RIB car SPA co	not be reset wi	tnout SOR				
			mes on n't be reset w/o	COD				

Hutchless Beamline Radiological Interlock Test						
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4.	Observe the photon shut	ter while it i	s opened	and closed (if applicable).	
				mechanism ration	noves freely and	without
				ches are secu switch prope	are and switch ac erly	tuator depresses
			Jam	nut on cylind	der shaft is tight	
	Open the safety shutter. replace the key.	Remove the	e Control	Room Shutte	er Enable Key fo	or this beam line, then
	iopiwoo uno noj.		The	safety shutte	r closes	
				latch light co		
			The	"Control Ro	om Shutter Enab	le" light goes out
			The	SPA latch co	omes on (after the	e key is back on)
			The	safety shutte	r cannot be open	ed
	Reset RIA and SPA					
6.	Open the Safety Shutter					
	Turn "Auto Open" key t	o "ON" (if k	ey switch	is installed	on beamline).	
	At the Control Room Op back to "Enable"	perator's Cor	nsole, swi	tch the shutte	er master enable	to "Inhibit" and
			The	safety shutte	r closes	
			And	then re-open	ıs	
	Turn "Auto Open" key t	o "OFF" - D	isregard 1	this step if ke	ey switch is not in	nstalled.
	Switch the master enable					
			The	safety shutte	r closes	
			And	does NOT re	e-open	

Hutchless Beamline Radiological Interlock Test									
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	One person goes to the x-ray equipment area and resets the indicators for RIAX and RIBX at SR100. Cheat the beam line lockout key. Open the safety shutter and photon shutter (if equipped). Remove the key and then replace it.								
				RIBX RIBX	RIB latch light comes on RIBX "Loop Enabled" indicator goes out RIBX "Loop Disabled" indicator comes on RIBX cannot be reset				
				RIA latch light comes on RIAX "Loop Enabled" indicator goes out RIAX "Loop Disabled" indicator comes on RIAX cannot be reset					
					safety shutter photon shutte	closes er closes (if equip	ped)		
	Reset RIB				X CAN be re op Enabled"	set indicator comes	s on)		
	Reset RIA				X CAN be re op Enabled"	set indicator come	s on)		
	Locate the safety shutter associated with the beam line by tracing the beam pipe through the shield wall. Do not rely on labels on the shutter mechanism. Open and close the shutter two times. The correct shutter opens No other shutter at that saw tooth opens or attempts to open The mechanism moves freely and without hesitation								
9.	Remove user	interlock te	est jumper (i	f applical	ble).				

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